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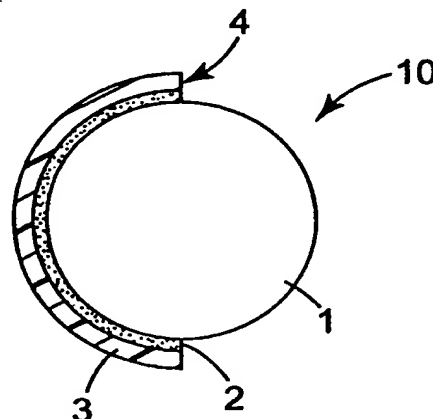
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(21) International Application Number: PCT/US99/10863 (22) International Filing Date: 17 May 1999 (17.05.99) (30) Priority Data: 10/135536 18 May 1998 (18.05.98) JP (71) Applicant (for all designated States except US): MINNESOTA MINING AND MANUFACTURING COMPANY [US/US]; 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): SAITOU, Kenichi [JP/JP]; 5-36-2, Iida 3-chome, Yamagata-city, Yamagata pref. 990-2332 (JP). TOMINAGA, Masanori [JP/JP]; 1-11-24, Namiki, Sagami-hara-city, Kanagawa pref. 229-0028 (JP). SUGII, Shinji [JP/JP]; 34-16, Kuboyama-cho 2-chome, Hachioji-city, Tokyo 192-0023 (JP). (74) Agents: BUCKINGHAM, Stephen, W. et al.; Minnesota Mining and Manufacturing Company, Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).			(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published With international search report.

(54) Title: LIGHT REFLECTIVE FILM AND LIGHT EMITTING APPARATUS

(57) Abstract

To provide a light reflective film capable of easily controlling the directivity of radiation and the illuminating range in accordance to the operating conditions and also capable of effectively increasing the intensity of the emitted light of a light-emitting apparatus. A light reflective film intimately contacted with a light-emitting surface of a light source in such a manner that a part of said light-emitting surface is covered with said film, thereby the intensity of the light emitted from the remaining and uncovered part of the light-emitting surface is increased, characterized in that the light reflective film further comprises a dielectric reflective film having a reflective surface opposed to the light-emitting surface of the light source and a light-transmissive adhesive film intimately contacted with the reflective surface of the dielectric refractive film.



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